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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/767,043	01/29/2004	Michael Robert Burke	ROC9200300351USI	4830
Grant A. Johnson IBM Corporation, Dept. 917 3605 Highway 52 North Rochester, MN 55901-7829			EXAMINER	
			PARK, JEONG S	
			ART UNIT	PAPER NUMBER
,,			2154	
			MAIL DATE	DÉLIVÉRY MODE
			10/31/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		do
	Application No.	Applicant(s)
•	10/767,043	BURKE ET AL.
Office Action Summary	Examiner	Art Unit
	Jeong S. Park	2154
The MAILING DATE of this communication	appears on the cover sheet w	ith the correspondence address
Period for Reply A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by s Any reply received by the Office later than three months after the n earned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUN R 1.136(a). In no event, however, may a n. eriod will apply and will expire SIX (6) MO tatute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
 1) Responsive to communication(s) filed on 2 2a) This action is FINAL 2b) 3) Since this application is in condition for allocation in accordance with the practice under the condition of the condition	This action is non-final. owance except for formal ma	
Disposition of Claims		
4) ☐ Claim(s) 1-20 is/are pending in the applica 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction as	drawn from consideration.	
Application Papers		·
9) ☐ The specification is objected to by the Exar 10) ☑ The drawing(s) filed on 29 January 2004 is Applicant may not request that any objection to Replacement drawing sheet(s) including the co	/are: a)⊠ accepted or b)□ the drawing(s) be held in abeya prection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	nents have been received. nents have been received in a priority documents have bee Ireau (PCT Rule 17.2(a)).	Application No n received in this National Stage
Attachment(s)	·	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-9483) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application

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DETAILED ACTION

Claim Objections

1. Claims 1-17 are objected to because of the following informalities:

In claim 1, line 2, the phrase "a connection pool" should be corrected as --the connection pool-- for clear understanding of the claim;

In claim 7, line 3, the phrase "the maximum number of connections" should be corrected as --the initial maximum number of connections-- for clear understanding of the claim;

In claim 7, line 6, the phrase "the maximum number of connections" should be corrected as --the modified maximum number of connections-- for clear understanding of the claim;

In claim 15, line 5, the phrase "the maximum number of connections" should be corrected as --the initial maximum number of connections-- for clear understanding of the claim; and

In claim 15, line 9, the phrase "the maximum number of connections" should be corrected as --the modified maximum number of connections-- for clear understanding of the claim.

Appropriate correction is required.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

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3. Claims 15-17 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claim 15 is drawn towards a computer program product comprising a signal bearing media. The signal bearing media defined in the specification is not in one of the statutory categories. The specification provides no explicit and deliberate definition of the signal bearing media.

Claim 16, which is dependent on claim 15, does not provide any explicit and deliberate definition of the signal bearing media to the claim and thus is rejected for the same.

Claim 17 is drawn towards a computer program product comprising a signal bearing media defined as the information conveyed to a computer by a communications medium. The communications medium defined in the specification is not in one of the statutory categories. The specification provides no explicit and deliberate definition of the communications medium.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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5. Claims 1-12 and 15-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Bhogi et al. (hereinafter Bhogi)(U.S. Pub. No. 2004/0088413 A1).

Regarding claims 1, 18 and 19, Bhogi teaches as follows:

A method of configuring a server computer having a connection pool (a dynamically configurable resource pool used in a connection pool for server systems, see, e.g., abstract), comprising:

initializing a connection pool (a initial connection pool size is used to determine the number of connections that the connection pool manager will generate upon initialization of the connection pool, see, e.g., page 5, paragraph [0040]);

generating heuristic override information (interpreted as configuration parameters, see, e.g., page 5, paragraph [0040])(requestor 110 in figure 1, which is a component of the server 140 in figure 1, generates a request to change the configuration of the resource pool 100 in figure 1, see, e.g., page 3, paragraph [0025], lines 8-11); and

modifying the connection pool using the heuristic override information (configuration parameters)(the main unit 240 in figure 2 implements the requested new configuration upon receiving a configuration change request while current resource utilization continues undisturbed, see, e.g., page 5, paragraph [0041], lines 1-10).

Regarding claims 2 and 3, Bhogi teaches as follows:

the connection pool is initialized using a plurality of initial settings wherein the plurality of initial settings comprises a maximum number of connections (a initial connection pool size is used to determine the number of connections that the

connection pool manager will generate upon initialization of the connection pool, see, e.g., page 5, paragraph [0040], lines 18-21).

Regarding claims 4-6, 9 and 20, Bhogi teaches as follows:

the heuristic override information comprises a heuristic override setting and a time period, wherein the heuristic override setting comprises a maximum number of connections (interpreted as a maximum pool size, see, e.g., page 5, paragraph [0040], lines 21-25), wherein the time period comprises at least one of a time of day, a day of week, and a day of year (whenever the requestor 110 in figure 1 generates the request change of configuration it is inherent to have the record of the requested time of day).

Regarding claims 7 and 15-17, Bhogi teaches as follows:

A method of operating a server, comprising:

initializing a connection pool with an initial maximum number of connections (a initial connection pool size is used to determine the number of connections that the connection pool manager will generate upon initialization of the connection pool, see, e.g., page 5, paragraph [0040]);

applying heuristic information (interpreted as configuration parameters, see, e.g., page 5, paragraph [0040])(requestor 110 in figure 1, which is a component of the server 140 in figure 1, generates a request to change the configuration of the resource pool 100 in figure 1, see, e.g., page 3, paragraph [0025], lines 8-11) to modify the maximum number of connections (the main unit 240 in figure 2 implements the requested new configuration upon receiving a configuration change request while current resource utilization continues undisturbed, see, e.g., page 5, paragraph [0041], lines 1-10);

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in response to receiving a request to connect (connection requests, see, e.g., page 4, paragraph [0030]):

detecting a current number of connections (request for current connection pool statistics by providing current values for connection pool usage parameters such as total number of connections in the pool and total number of connections in use, see, e.g., page 4, paragraph [0031]); and

if the current number of connections is less than the maximum number of connections, creating a new connection (see, e.g., page 6, paragraph [0048] and figure 8 steps 810 and 815).

Regarding claim 8, Bhogi teaches as follows:

detecting a connection having an unused time (idle time) greater than a time-out value (connection idle time) and deleting the connection (see, e.g., page 6, paragraph [0052], lines 27-33).

Regarding claim 10, Bhogi teaches as follows:

in response to receiving a request to connect, resetting an unused time (maximum idle connection time parameter, see, e.g., page 5, paragraph [0040], lines 31-34) associated with every available connections (it is inherent to reset the idle connection time when receiving connection request).

Regarding claim 11, Bhogi teaches as follows:

if the current number of connections is greater than or equal to the maximum number of connections, waiting for a connection to become available (the current pool size is equal to the maximum pool size then the wait queue unit 250 in figure 2 places

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the request for connection on the wait queue, see, e.g., page 6, paragraph [0049] and figure 8 step 810, 840, 845, 850 and 855).

Regarding claim 12, Bhogi teaches as follows:

in response to receiving a close connection request for a connection, indicating the connection as available (when a connection is returned to the connection pool, the connection is available for the connection request waiting in the wait queue unit 250 in figure 2, see, e.g., page 6, paragraph [0049]).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bhogi et al. (hereinafter Bhogi)(U.S. Pub. No. 2004/0088413 A1) as applied to claim 7 above, and further in view of Mousseau et al. (hereinafter Mousseau)(U.S. Pub. No. 2004/0078495 A1).

Regarding claim 13, Bhogi teaches all the limitations of claim except for teaching of Java Database Connectivity connections.

Mousseau teaches as follows:

The Java Database Connectivity (JDBC) component can configure and manage database connectivity such as data sources and connection pools, see, e.g., page 12, paragraph [0153] and [0154]).

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It would have been obvious for one of ordinary skill in the art at the time of the invention to modify Bhogi to include JDBC for database connectivity with connection pools as taught by Mousseau in order to efficiently and securely connect the clients to the database via the connection pool.

8. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bhogi et al. (hereinafter Bhogi)(U.S. Pub. No. 2004/0088413 A1) as applied to claim 7 above, and further in view of Chong et al. (hereinafter Chong)(U.S. Pub. No. 2004/0064552 A1).

Regarding claim 14, Bhogi teaches all the limitations of claim except for teaching of Java 2 Connector connections.

Chong teaches as follows:

The J2C pool is used for physical connections (see, e.g., page 5, paragraph [0062]).

It would have been obvious for one of ordinary skill in the art at the time of the invention to modify Bhogi to include J2C connection for database connectivity with connection pools as taught by Chong in order to efficiently and securely connect the clients to the database via the connection pool.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeong S. Park whose telephone number is 571-270-1597. The examiner can normally be reached on Monday through Thursday 7:30 - 5:00 EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on 571-272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be considered from the Patent Application Information Retrieval (PAIR) system. Status information for public PAIR.

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October 18, 2007